AMENDMENTS TO THE CLAIMS

1. (Currently amended) A mechanical persistent current switch comprising:

a bulk member ~~made~~ of ~~a~~ an RE-Ba-Cu-O superconductor, RE representing a rare earth element~~; and~~,

~~connector material;~~ wherein ~~the~~ said bulk member ~~made of RE-Ba-Cu-O superconductor~~ is made by a melt process in which resin ~~is~~ including fillers having a low thermal expansion coefficient in a dispersed manner are impregnated~~,~~ and ~~the~~

connector material ~~with an electrical~~ forming a current terminal and a voltage terminal on ~~the~~ said bulk member, wherein the contacting surfaces of the connector material are polished, and a direction of current is parallel to the ab surface by making the contact surface of the connector material perpendicular to the ab surface of the connector material.

Claims 2-4. Canceled.

5. (Withdrawn) A method of using a mechanical persistent current switch according to claim 1 having a pre-treatment of passing currents above the critical value until the ohmic resistance behavior appears prior to using the mechanical persistent current switch.